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(54) CONTINUOUS MEASURING DEVICE FOR BLOOD SUGAR VALUE

(57) Abstract:

PURPOSE: To enable continuous measurement of the fluctuating blood sugar value of a patient without COPYRIGHT; (C)1984, IPO&Japio retardation by constituting a measuring part of a membrane for immobilizing glucose oxidizing enzyme and a hydrogen peroxide electrode having 3:1 area ratio of a silver cathode and a platinum anode in measuring the conon, of the glucose in a sample liquid contg. glucose divided by incorporating a gaseous substance of 1/3W2 times volume of sample liquid in the continuous liquid flow of said sample

CONSTITUTION: A tube 38 for supplying a gaseous substance, for example, air, provided with a pump 36 is connected to a mixing tube 28 to divide the flow of a dilute blood by the air. The divided samples of the ditute blood are transferred to a measuring part 46 for a blood sugar value. The part 46 is constituted of, for example, an enzyme electrode 56 and a flow cell 59, and is capable of detecting, with time, the output corresponding to the blood sugar value of the samples of the dilute blood divided by the gaseous substance and supplied via an nozzie 58. The cuttrut obtid, with the electrode 56 is fed, via an amplifier, to an arithmetic circuit for the blood sugar value, by which the blood sugar value is calculated if the ratio of the area of

the silver cathode/the aree of the plotinum cathode of the hydrogen peroxide electrode is to 3, the measured value in a high conon, region does not show a low value as compared to the true value and the linearity in the output is assured.



